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FCC – 12-107

Comments – proposal for 203 CVAA VI-STB

EAS/VD- Access



- This is in response to FCC req for comments for EAS/VD Docket 12-107
- A) Request MSO/MVPD not to encrypt Audio streams for
 - Broadcast programs – under basic tier encryption
 - cable programs – new request
 - in clear, so 3rd party commercial products can be developed independent of the MVPD.
- This would enable small dongles with bluetooth/wifi connectivity with Smart phone apps to be developed and sold.
- Leaving Audio in clear eliminates the need for incorporating conditional access
 - Basic Tier Encryption –
 - Cable networks – need programmer permission
 - Or two way back channel to authenticate the user and then provide the stream in clear
 - Or make the audio streams available over internet – after MSO authentication –using TV Everywhere – Adobe Pass etc .

USAGE Scenarios



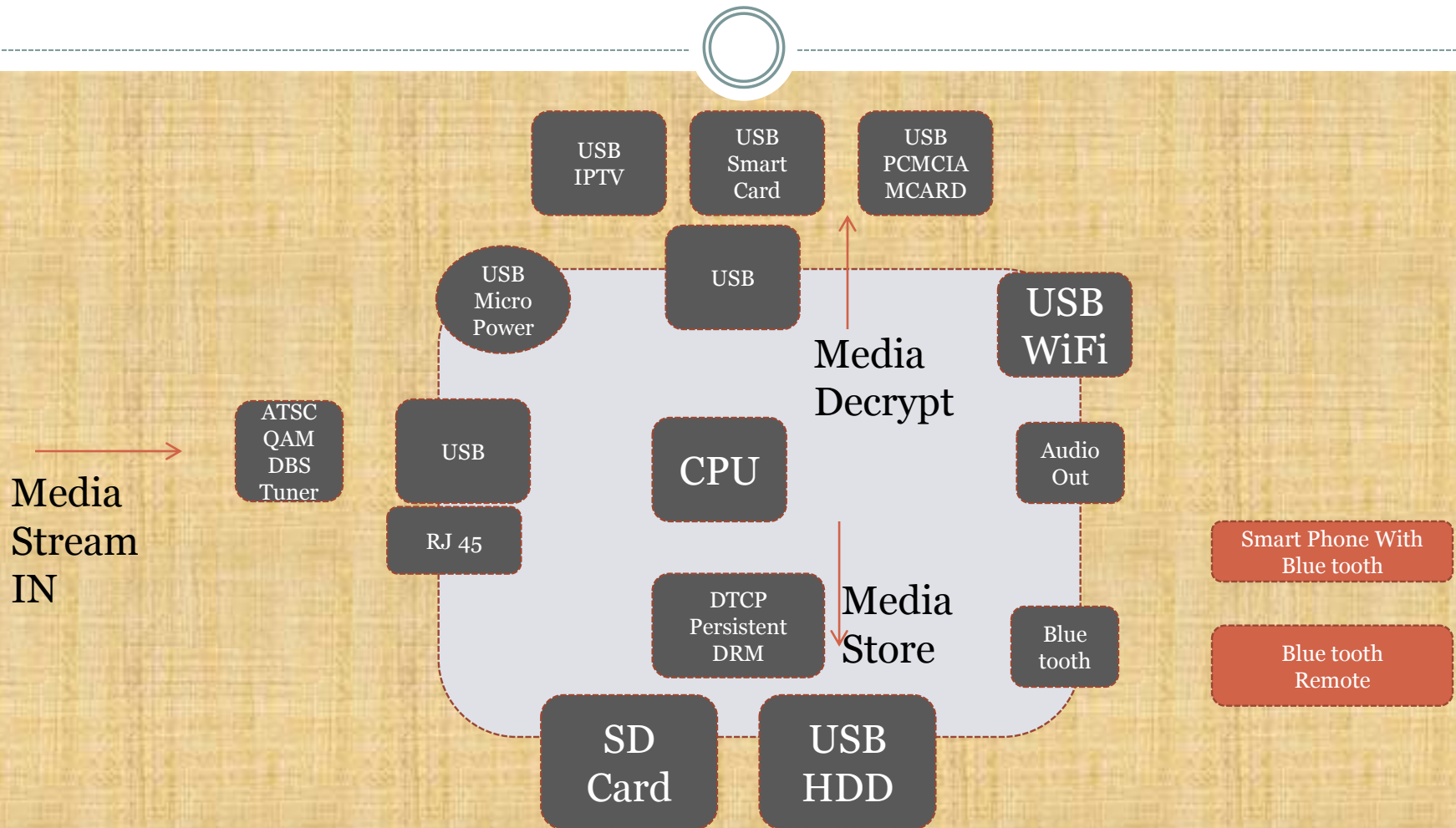
1. Over the Air – ATSC
2. Cable –MSO – Clear QAM
 1. Tier 2 – who don't want to make use of Basic Tier Encryption
3. Cable MSO – Pay TV – with no SDV
 1. Comcast
4. Cable MSO – Pay TV with SDV
 1. Time Warner
5. DBS
 1. Dish, DirecTV
6. Telco TV

User Profile



- Visually Impaired
- Access to
 - Over the Air Antenna
 - Subscribe to MSO/DBS/Telco
 - Speakers
- Nice to have
 - Home router
 - Smart Phone
 - Internet connection for EPG

Proposed VI-VD-EAS Universal Dongle

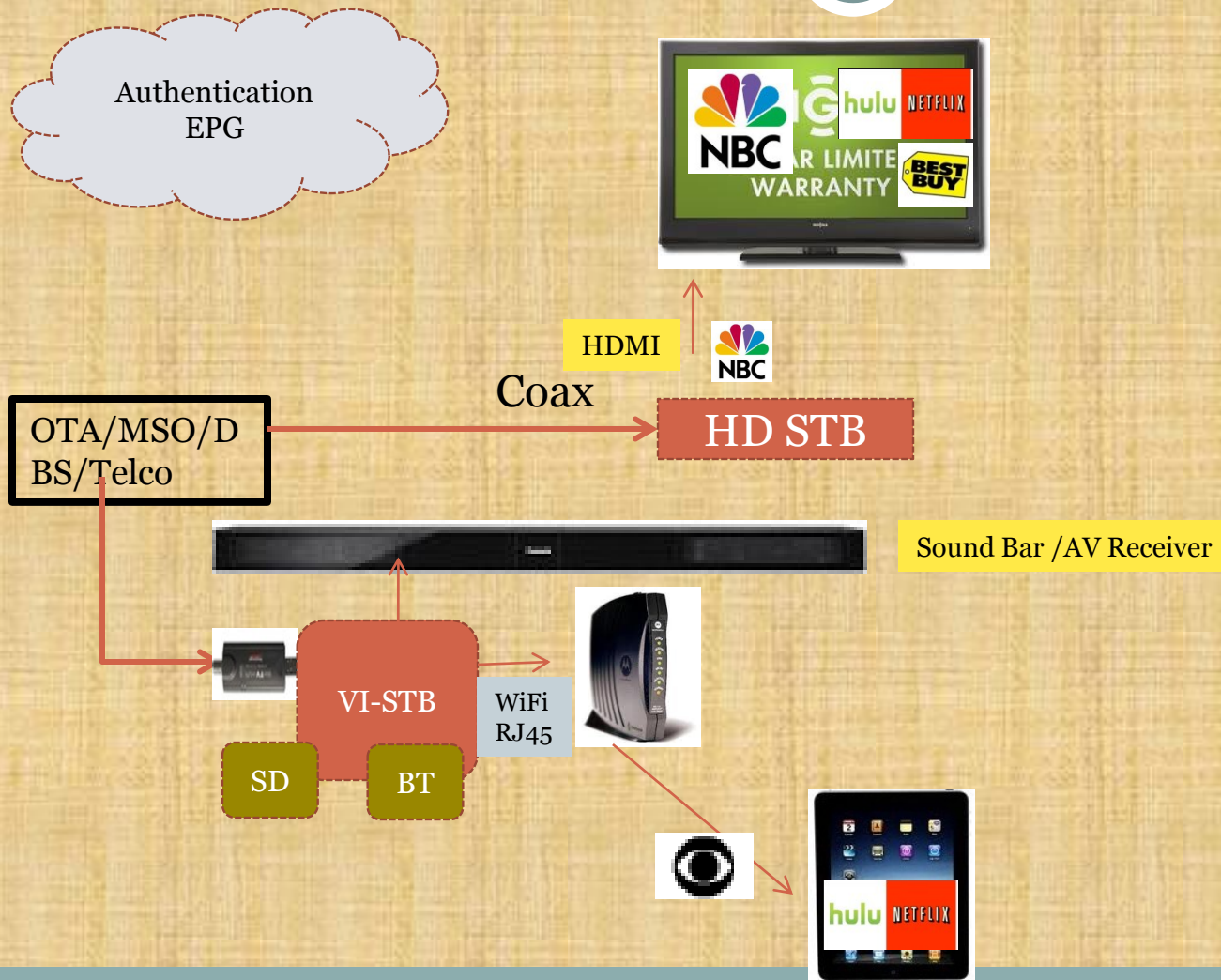


Use case



- Consumer gets the Universal Dongle/Power/Bluetooth Remote from Retail or from Service provider
- Service provider provides the
 - USB Tuner/USB Decrypt module – for Cable/DBS
 - USB Decrypt module for Telco
- EPG
 - SCTE 65 OOB/In-band EPG
 - Or Internet EPG
 - ATSC 65
- EAS/VD
 - From the MPEG Description from relevant standards
- EAS/VD output
 - To speakers
 - To Bluetooth - head phones, smart phones
 - Over Home network to Smart Phones

Installation



Benefits of VI-STB



- Universal – Across different Pay-TV providers – even global
- Multiple output options – Speakers/Bluetooth/Home networks
- Low cost
- Freedom- Ability to switch providers
- Customized to VI – instead of trying to retro fit current STBs – dis-service

Call for Action



- FCC Mandate for a
 - Universal Dongle – to be provided by Service provider or Retail
- Leave Audio Streams in clear – VD and EAS
- USB Tuner/USB Smart Card/MCARD by Service provider